

Title (en)

BATTERY ASSEMBLY FOR LOAD BEARING STRUCTURAL INTEGRATION OF BATTERIES IN A VEHICLE

Title (de)

BATTERIEANORDNUNG ZUR LASTTRAGENDEN STRUKTURELLEN INTEGRATION VON BATTERIEN IN EIN FAHRZEUG

Title (fr)

AGENCEMENT DE BATTERIE PERMETTANT L'INTÉGRATION STRUCTURELLE DES BATTERIES DANS UN VÉHICULE

Publication

**EP 3544083 B1 20230614 (DE)**

Application

**EP 19162541 A 20190313**

Priority

DE 102018204420 A 20180322

Abstract (en)

[origin: US2019296300A1] A battery arrangement for the load-bearing structural integration of batteries into a vehicle, in particular an aircraft or spacecraft, includes two cover plates having battery holders and batteries, which are held on both sides between the cover plates by the battery holders, wherein the batteries are arranged in battery rows along the cover plates, wherein the batteries in the battery rows are each aligned at a slope angle relative to the cover plates in order to absorb and transmit loads, and wherein the slope angle in the battery rows has positive and negative values.

IPC 8 full level

**H01M 50/209** (2021.01); **H01M 50/213** (2021.01); **H01M 50/249** (2021.01)

CPC (source: CN EP US)

**B60L 50/66** (2019.01 - US); **B64C 7/00** (2013.01 - CN); **B64D 27/24** (2013.01 - CN US); **B64G 1/425** (2013.01 - US); **B64U 50/19** (2023.01 - CN); **H01M 10/613** (2015.04 - CN US); **H01M 10/625** (2015.04 - CN US); **H01M 10/6554** (2015.04 - CN); **H01M 10/6556** (2015.04 - CN US); **H01M 50/209** (2021.01 - CN EP US); **H01M 50/213** (2021.01 - CN EP US); **H01M 50/242** (2021.01 - US); **H01M 50/249** (2021.01 - EP US); **B60L 2200/10** (2013.01 - US); **H01M 2220/20** (2013.01 - CN EP US); **Y02E 60/10** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Cited by

US11302979B2; US11316224B2; US11613219B2; US11217839B2; US11530026B2; EP3750794B1; WO2021110610A1

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DOCDB simple family (application)

**EP 19162541 A 20190313**; CN 201910216094 A 20190320; DE 102018204420 A 20180322; US 201916360757 A 20190321